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**Communications**

**RADIO FREQUENCY SPECTRUM  
MANAGEMENT**

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This instruction outlines the responsibilities and provides policy, guidance, and procedures for the management of the radio frequency spectrum used by the 51st Fighter Wing. It applies to all units assigned to, attached to, or a tenant of the 51st Fighter Wing. This instruction implements AFD 33-1, *Command, Control, Communications, and Computer (C4) Systems*. References: AFI 10-707, 33-118, AFMAN 33-120, 7 AFI 33-101, USFKR 25-6, 525-6, and PACAF supplements thereto.

**SUMMARY OF REVISIONS**

This revision reflects the renaming of AFRs 55-3 to AFI 10-707, 700-14 to 33-118 and 700-17 should read AFI 33-106.

**1. Responsibilities:**

1.1. In accordance with AFI 33-118, the installation commander is responsible for all electromagnetic radiation emanating from the installation and from those outlying activities hosted by the installation. The 51st Communications Squadron Communications-computer Systems Officer (CSO), on behalf of the installation commander, will appoint in writing, a primary and alternate installation frequency manager. If possible, the appointed individuals will be assigned this duty for a minimum of one year.

1.2. The Installation Frequency Manager will:

1.2.1. Act as a single point of contact for all matters pertaining to radio frequency management for the host base and all tenant activities. This extends to, but is not limited to, the installation, or planned installation, of any device designed to radiate Radio Frequency (RF) energy, including those installed on a temporary basis. This will ensure Electromagnetic Compatibility (EMC) in the intended environment.

1.2.2. Submit all radio frequency actions through proper channels.

- 1.2.3. Provide users with Radio Frequency Authorization documents and provide explanations concerning the use or limitations of the radio frequency assignments.
- 1.2.4. Publish an installation radio frequency management instruction which clearly defines the control and management of all electromagnetic radiating devices within the frequency manager's area of responsibility.
- 1.2.5. Attend the base Communications-Computer Systems Requirements Board (CSRB) meetings to ensure radio frequency management support is considered for all radiating devices within the frequency manager's area of responsibility.
- 1.2.6. Make sure all requests for radio frequency usage are complete and contain all required information before forwarding to assignment authorities. Provide assistance to units when needed.
- 1.2.7. Attempt to resolve interference problems at the lowest level.
- 1.2.8. Make sure all directives concerning radio frequency management are available, current, and being followed.
- 1.2.9. Implement and monitor procedures for reports of Joint Spectrum Interference Resolution (JSIR). These procedures will be in accordance with AFI 10-707 and USFKR 525-6.
- 1.3. Each organization authorized to use a radio frequency or frequencies will:
  - 1.3.1. Identify to the installation frequency manager their unit's points of contact for all radio frequency matters. This will be in letter form and contain the name of the primary and alternate with rank, office symbol, duty phone and DEROS of each. This letter will be updated whenever there is a change to any of the information.
  - 1.3.2. Ensure current Air Force directives concerning frequency management are available and are being followed.
  - 1.3.3. Maintain a frequency authorization document for each radio frequency in use by the unit.

A copy of the assignment will be provided at the time of approval.
  - 1.3.4. Make sure the operation of equipment radiating RF energy complies with the limitations and tolerances set forth in the authorization.
  - 1.3.5. Coordinate all frequency actions with the installation frequency manager. This will include the installation, or planned installation, of any device designed to radiate RF energy, including antennas, prior to operation.
  - 1.3.6. Request the minimum transmit power, antenna gain, and antenna height necessary to obtain satisfactory service.
  - 1.3.7. Use radiation suppression devices (dummy loads) as much as possible when tuning, testing, or experimenting on communications equipment.
  - 1.3.8. Review radio frequency assignments annually and identify those frequency assignments that are no longer in use or required to the installation frequency manager for deletion or modification as necessary.
  - 1.3.9. Immediately resolve any deficiencies that are causing interference to other authorized radio frequency users.

1.3.10. Report all unresolved interference problems through a JSIR report in accordance with AFI 10-707 and USFKR 525-6. Coordinate the report with the installation frequency manager.

## **2. Procedures:**

2.1. New Assignments. The unit frequency monitor will submit new requirements in writing to the installation frequency manager with a complete explanation and justification of the requirement. Frequency and equipment to be used will be included. If the requirement is classified, include the classification directive and declassification instructions. A lead-time of 140 days is required for new assignments.

2.2. Modifications. A modification to an existing assignment is necessary when there is a change to any information contained in the current assignment. These modifications will be submitted by letter to the installation frequency manager by the unit holding the assignment. The letter will be submitted 120 days before the modification is required. This will allow time to ensure the change will not cause any harmful interference to the authorized users.

2.3. Deletions. A deletion will be submitted by letter to the installation frequency manager when it is determined that the frequency assignment is no longer required.

2.4. Temporary Assignments. A temporary assignment is issued when a requirement is for less than 90 days. The request will be submitted to the installation frequency manager no less than 60 days prior to the required date. No frequency will be used until a temporary frequency assignment has been received.

## **3. Radio Frequency Interference:**

3.1. Due to the congestion of the radio frequency spectrum in the Republic of Korea (ROK), users may experience interference on their assigned frequencies. When interference is severely disruptive and recurring, actions must be taken to resolve the problem. The user will keep a log of the occurrences and submit a MIJI report in accordance with AFI 10-707 and USFKR 525-6. However, MIJI reports will only be submitted after it has been determined the equipment being used is not at fault.

3.2. In addition, it should be known that frequencies assigned outside the authorized bands are not "Host Government" coordinated. "In band" assignments are the only ones that offer protection. All others are assigned with the understanding there may be interference from users whose authorizations were granted by the Host Government.

## **4. Amateur (Ham) and Citizens Band Radio Operations:**

4.1. Amateur operations in the Republic of Korea will be in accordance with USFKR 25-6. Operations are restricted to military installations. Mobile operations are not permitted. MARS Base Support/Disaster Preparedness Support Teams are authorized mobile operations in performance of their mission during contingency/emergency operations, both real world and exercise, in accordance with AFI 33-106.

4.2. Citizens Band (CB) radio operations are strictly prohibited in the ROK. Operation of CB radios in the ROK may create Status of Forces Agreement (SOFA) incidents and equipment may be confiscated.

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